

COC# 211

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200
(509) 924-9200
(503) 906-9200
(541) 388-9310

(425) 420-9210
(509) 924-9290
FAX 906-9210
FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #:

8/11/01
M107062 M108001

CLIENT: BRISTOL		INVOICE TO: BRISTOL										TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">10</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. OTHER Please Specify							
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090																	
ADDRESS: AMCHITKA, AK																			
PHONE: 907-710-0974 FAX: 770-0975																			
PROJECT NAME: AMCHITKA		REQUESTED ANALYSES																	
PROJECT NUMBER: 21090		PCBs	Metals																
SAMPLED BY: ARK / KLP																			
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME															MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMLA23SL	8/11/01 1400	X	X													S	2		
2. 01AMLA25SL	8/11/01 1350	X	X													S	2	"25-es-el"	
3. 01AMLA33SL	8/11/01 1320	X	X													S	2		
4. 01AMLA34SL	8/11/01 1330	X	X													S	2		
5. 01AMLA13SL	8/11/01 1412	X	X													S	2		
6. 01AMA KLP																			
7. 01AMLA03SL	8/11/01 1426	X	X													S	2		
8. 01AMLA14SL	8/11/01 1405	X	X													S	2		
9. 01AMLA20SL	8/11/01 1340	X	X													S	2		
10.																			
11.																			
12.																			
13.																			
14.																			
15.																			

RELINQUISHED BY: Kyle Petersen	DATE: 8/11/01	RECEIVED BY: Craig Brader	DATE: 8/11/01
PRINT NAME: KYLE PETERSEN	TIME: 1523	PRINT NAME: CRAIG BRADER	TIME: 1530
RELINQUISHED BY:	DATE:	RECEIVED BY:	DATE:
PRINT NAME:	TIME:	PRINT NAME:	TIME:

FIRM: BRISTOL
FIRM: NCA

ADDITIONAL REMARKS:
COC REV 3/99

TEMP: 9.8°C

PAGE 1 OF 1



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 08/01/01 15:30. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M108001



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMLA23SL	M108001-01	Soil	08/01/01 14:00	08/01/01 15:30
01AMLA25SL	M108001-02	Soil	08/01/01 13:50	08/01/01 15:30
01AMLA33SL	M108001-03	Soil	08/01/01 13:20	08/01/01 15:30
01AMLA34SL	M108001-04	Soil	08/01/01 13:30	08/01/01 15:30
01AMLA13SL	M108001-05	Soil	08/01/01 14:12	08/01/01 15:30
01AMLA03SL	M108001-06	Soil	08/01/01 14:26	08/01/01 15:30
01AMLA14SL	M108001-07	Soil	08/01/01 14:05	08/01/01 15:30
01AMLA20SL	M108001-08	Soil	08/01/01 13:40	08/01/01 15:30

C. O. C. # 211

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMLA23SL (M108001-01) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	143	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	286	"	"	"	"	"	"	
Aroclor 1232	ND	143	"	"	"	"	"	"	
Aroclor 1242	ND	143	"	"	"	"	"	"	
Aroclor 1248	ND	143	"	"	"	"	"	"	
Aroclor 1254	ND	143	"	"	"	"	"	"	
Aroclor 1260	ND	143	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 83.2 % 55-130
Surr: Decachlorobiphenyl 76.0 % 55-130

01AMLA25SL (M108001-02) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	147	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	294	"	"	"	"	"	"	
Aroclor 1232	ND	147	"	"	"	"	"	"	
Aroclor 1242	ND	147	"	"	"	"	"	"	
Aroclor 1248	ND	147	"	"	"	"	"	"	
Aroclor 1254	ND	147	"	"	"	"	"	"	
Aroclor 1260	ND	147	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 88.8 % 55-130
Surr: Decachlorobiphenyl 76.7 % 55-130

01AMLA33SL (M108001-03) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	148	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	295	"	"	"	"	"	"	
Aroclor 1232	ND	148	"	"	"	"	"	"	
Aroclor 1242	ND	148	"	"	"	"	"	"	
Aroclor 1248	ND	148	"	"	"	"	"	"	
Aroclor 1254	ND	148	"	"	"	"	"	"	
Aroclor 1260	ND	148	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 80.1 % 55-130
Surr: Decachlorobiphenyl 65.6 % 55-130

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
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541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMLA34SL (M108001-04) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	148	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	295	"	"	"	"	"	"	
Aroclor 1232	ND	148	"	"	"	"	"	"	
Aroclor 1242	ND	148	"	"	"	"	"	"	
Aroclor 1248	ND	148	"	"	"	"	"	"	
Aroclor 1254	ND	148	"	"	"	"	"	"	
Aroclor 1260	ND	148	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene

80.6 % 55-130

Surr: Decachlorobiphenyl

65.1 % 55-130

01AMLA13SL (M108001-05) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	148	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	297	"	"	"	"	"	"	
Aroclor 1232	ND	148	"	"	"	"	"	"	
Aroclor 1242	ND	148	"	"	"	"	"	"	
Aroclor 1248	ND	148	"	"	"	"	"	"	
Aroclor 1254	ND	148	"	"	"	"	"	"	
Aroclor 1260	ND	148	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene

80.3 % 55-130

Surr: Decachlorobiphenyl

66.4 % 55-130

01AMLA03SL (M108001-06) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	145	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	291	"	"	"	"	"	"	
Aroclor 1232	ND	145	"	"	"	"	"	"	
Aroclor 1242	ND	145	"	"	"	"	"	"	
Aroclor 1248	ND	145	"	"	"	"	"	"	
Aroclor 1254	ND	145	"	"	"	"	"	"	
Aroclor 1260	ND	145	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene

75.7 % 55-130

Surr: Decachlorobiphenyl

61.1 % 55-130

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMLA14SL (M108001-07) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	144	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	288	"	"	"	"	"	"	
Aroclor 1232	ND	144	"	"	"	"	"	"	
Aroclor 1242	ND	144	"	"	"	"	"	"	
Aroclor 1248	ND	144	"	"	"	"	"	"	
Aroclor 1254	ND	144	"	"	"	"	"	"	
Aroclor 1260	ND	144	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 71.3 % 55-130

Surr: Decachlorobiphenyl 55.8 % 55-130

01AMLA20SL (M108001-08) Soil

Sampled: 08/01/01 Received: 08/01/01

Aroclor 1016	ND	146	ug/kg dry	1	EPA 8082	08/01/01	08/02/01	0108001	
Aroclor 1221	ND	293	"	"	"	"	"	"	
Aroclor 1232	ND	146	"	"	"	"	"	"	
Aroclor 1242	ND	146	"	"	"	"	"	"	
Aroclor 1248	ND	146	"	"	"	"	"	"	
Aroclor 1254	ND	146	"	"	"	"	"	"	
Aroclor 1260	ND	146	"	"	"	"	"	"	

Surr: 2,4,5,6-Tetrachloro-m-xylene 71.8 % 55-130

Surr: Decachlorobiphenyl 60.5 % 55-130

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA23SL (M108001-01) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00949	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA25SL (M108001-02) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00782	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA33SL (M108001-03) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00888	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA34SL (M108001-04) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00600	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA13SL (M108001-05) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00823	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA03SL (M108001-06) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00945	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA14SL (M108001-07) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00822	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	
01AMLA20SL (M108001-08) Soil					Sampled: 08/01/01 Received: 08/01/01				
Mercury	0.00572	0.00500	mg/kg dry	1	EPA 1631	08/05/01	08/08/01	0108015	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMLA23SL (M108001-01) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	76.0	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA25SL (M108001-02) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	75.1	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA33SL (M108001-03) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	74.4	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA34SL (M108001-04) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	74.8	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA13SL (M108001-05) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	76.2	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA03SL (M108001-06) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	75.4	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA14SL (M108001-07) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	76.2	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	
01AMLA20SL (M108001-08) Soil					Sampled: 08/01/01 Received: 08/01/01				
% Solids	77.1	0.0100 % by Weight		1	Gravimetric	08/01/01	08/02/01	0108002	

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0108001 - 3545 ASE

Blank (0108001-BLK1)

Prepared & Analyzed: 08/01/01

Aroclor 1016	ND	150	ug/kg wet
Aroclor 1221	ND	301	"
Aroclor 1232	ND	150	"
Aroclor 1242	ND	150	"
Aroclor 1248	ND	150	"
Aroclor 1254	ND	150	"
Aroclor 1260	ND	150	"

Surr: 2,4,5,6-Tetrachloro-m-xylene	259	"	267	97.0	55-130
Surr: Decachlorobiphenyl	250	"	267	93.6	55-130

LCS (0108001-BS1)

Prepared & Analyzed: 08/01/01

Aroclor 1254	902	150 ug/kg wet	833	108	55-130
Surr: 2,4,5,6-Tetrachloro-m-xylene	267	"	267	100	55-130
Surr: Decachlorobiphenyl	248	"	267	92.9	55-130

Matrix Spike (0108001-MS1)

Source: M107060-01

Prepared & Analyzed: 08/01/01

Aroclor 1254	1170	167	ug/kg dry	1280	ND	88.9	55-130
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>321</i>		<i>"</i>	<i>410</i>		<i>78.3</i>	<i>55-130</i>
<i>Surr: Decachlorobiphenyl</i>	<i>313</i>		<i>"</i>	<i>410</i>		<i>76.3</i>	<i>55-130</i>

Matrix Spike Dup (0108001-MSD1)

Source: M107060-01

Prepared & Analyzed: 08/01/01

Aroclor 1254	1230	167	ug/kg dry	1280	ND	93.5	55-130	5.00	40
Surr: 2,4,5,6-Tetrachloro-m-xylene	370	"		409		90.5	55-130		
Surr: Decachlorobiphenyl	347	"		409		84.8	55-130		

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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North Creek Analytical, Inc.
Environmental Laboratory Network



Seattle 11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-9223
425.420.9200 fax 425.420.9210
Spokane East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
509.924.9200 fax 509.924.9290
Portland 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132
503.906.9200 fax 503.906.9210
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
08/13/01 17:08

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0108015 - EPA 1631

Blank (0108015-BLK1)

Prepared: 08/05/01 Analyzed: 08/08/01

Mercury ND 0.00500 mg/kg wet

LCS (0108015-BS1)

Prepared: 08/05/01 Analyzed: 08/08/01

Mercury 0.0110 0.00500 mg/kg wet 0.0100 110 85-115

Duplicate (0108015-DUP1)

Source: M107057-01

Prepared: 08/05/01 Analyzed: 08/08/01

Q-06

Mercury 0.0138 0.00500 mg/kg dry 0.00716 63.4 20

Matrix Spike (0108015-MS1)

Source: M107057-01

Prepared: 08/05/01 Analyzed: 08/08/01

Q-01

Mercury 0.0269 0.00450 mg/kg dry 0.0120 0.00716 165 75-125

Matrix Spike (0108015-MS2)

Source: M107057-02

Prepared: 08/05/01 Analyzed: 08/08/01

Mercury 0.0233 0.00500 mg/kg dry 0.0127 0.00855 116 75-125

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Reported:
08/13/01 17:08

Notes and Definitions

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M108001 FINAL 08 13 01 1708.mdb Default Report (not modified)
0108015-DUP1	Hg Total CVAF 1631		Q-06
0108015-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
0108015-MS1	Hg Total CVAF 1631		Q-01
0108015-MS1	Hg Total CVAF 1631	Mercury	Exceeds upper control limit